

**Contractor's Progress Report  
(Technical and Financial)  
CDRL A001**

**For: Safe Surgery Trainer**

**Prime Contract: N00014-14-C-0066**

**For the Period Mar 1, 2014 to Mar 31, 2014**

**Submitted: 15 April 2015**

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## Medical Modeling - Safe Surgery Trainer

This Monthly Progress Report is provided in accordance with the contract CDRL.

**1) Contract Period of Performance:** 12 March, 2014 to 30 September, 2015

**2) Cost (Estimated financials may differ from actual invoice)**

a) Total Amount Funded to date:	\$910,256.00
b) Estimated Reporting Period Expenditures	\$28,638.46
c) Estimated Cumulative Expenditure	\$601,453.64
d) Estimated Remaining Funds To Completion	\$308,802.36

**3) Progress and Accomplishments During Report Period**

- a) Program Management – Ongoing communication and project management with project team and sub-contractors. Ongoing outreach with medical centers (see below). Ongoing project management according to Alion's CMMI Level 3 processes.
  - i) Continued coordinating of technology transfer, surgical visitation, and study participation.
  - ii) Ongoing interactions with medical representatives that were interested in or attended the SST StoryJam. StoryJam Participating organizations included: Portsmouth Naval Hospital, Langley AFB Hospital, Fort Eustis McDonald Healthcare, Eastern Virginia Medical School, Maryview Hospital, Mary Immaculate Hospital, and the Children's Hospital of the King's Daughters.
  - iii) Continued outreach to the VA, Navy, Army, Airforce, and civilian healthcare organizations to encourage participation and alignment.
- b) Prototype Development – Continued development of Iteration 2 including work on the missions, environmental art, and user interface. Continued refinement of scenarios, architecture, and foundational technology.
- c) Instructional Design and Healthcare Research – Minimal updates of scenario materials to ensure gameplay, scenarios, and conversations match the learning objectives. Continued reviewing the terminal and enabling Learning Objectives.
  - i) Learning Objectives:
    - (1) Facilitate Psychological Safety;
    - (2) Conduct an Effective Timeout;
- d) Research Studies – Continued preparation for May studies. Refined measurement outlines for continued studies. Continued plans for IRB approval for May testing.

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#### 4) Work in Progress / Plans for Next Month

- a) Program Management - Continue identifying communication channels, managing contracts, and coordinating with team members and outside participants. Continue involving team members and stakeholders in design, testing, and development.
- b) Prototype Development – Continue developing SST software, game-flow, and mechanics. Continue developing art assets including 2D, 3D environmental, and character avatars. Continue building infrastructure, user-interface, and scenario tools. Continue Iteration Two.
- c) Instructional Design and Healthcare Research – Continue developing/refining target scenarios and conversations. Continue refining the scenario's characters, backstory, and scenario. Continue refining the Learning Objectives.
- d) Research Studies – Support learning objective refinements with measurement outlines. Coordinate with Portsmouth Naval regarding IRB. Continue participation in discussions to ensure design, development, and research goals are in alignment (ex. psychological safety).

#### 5) Milestones / Deliverables

Name/Description	Date (Target or Actual)	Notes/Status
Project Management Plan	<b>DONE:</b> May 28, 2014	<b>COMPLETE</b>
Reports	15 <sup>th</sup> of each month	This document
Presentation Materials	As appropriate	ONR Kickoff Brief
Software Requirements Document	<b>Target:</b> Nov 30, 2014	
Scenario Design Document	<b>Target:</b> Sept 30, 2014 & June 30, 2015	
Prototype - Executable	<b>Target:</b> December, 2014, May, 2015, and Aug, 2015	Iter 1 – <b>COMPLETE 12/1/14</b> Iter 2 – Target Apr 30, 2015 Iter 3 – Target July 31, 2015
Prototype - Source	<b>Target:</b> Sept 30, 2015	
Research Data	<b>Target:</b> Sept 30, 2015	
Final Report	<b>Target:</b> Sept 30, 2015	
Milestone – Initiation	<b>DONE:</b> May 31, 2014	<b>COMPLETE</b>
Milestone – Iteration 1	<b>DONE:</b> Dec 1, 2014	<b>COMPLETE</b>
Milestone – Iteration 2	<b>Target:</b> Apr 30, 2015	
Milestone – Iteration 3	<b>Target:</b> July 31, 2015	
Milestone – Conclusion	<b>Target:</b> Sept 30, 2015	
Milestone – ONR Kickoff	<b>DONE:</b> Apr 22, 2014	<b>COMPLETE</b>
Milestone – StoryJam	<b>DONE:</b> May 25, 2014	<b>COMPLETE</b>

#### 6) Risks/Issues/Concerns/Problems

- a) Still need a transition agreement or memorandum with Portsmouth Naval Hospital. Working with new XO, Capt Smith. Will also begin work to

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brief/update the new CO, Capt Vai. (Note – see October report for more detailed analysis of previous risk)

**7) Travel Accomplished**

- a) I/ITSEC, Dec 1 – Dec 4, Orlando Florida. Included labor hours for onsite SST effort such as conducting the field study. No actual travel budget.
- b) IMSH, Jan 12-14, New Orleans, Louisiana. Includes labor hours for onsite SST demonstrations and meetings. No actual travel budget.

**8) Planned Travel**

- a) None.

**9) Related Activities**

- a) Submitted abstract for I/ITSEC 2015 tutorial, “We Need To Talk! Safer Surgery With Games.” Abstract was accepted, with presentation due June 12.
- b) Presented talk at the International Modelling and Simulation in Healthcare (IMSH) 2015 conference, New Orleans, Louisiana, Jan 10-14, 2015. “Safer Surgery with Games – The Moment of Truth”
- c) Presented at the Design of Learning Games Community Workshop, at I/ITSEC, Wednesday, Dec 3<sup>rd</sup>.
- d) Conducted Field Study from the Alion booth at I/ITSEC 2014 – only such study of the conference!
- e) Presented SST concepts in a brief at the M&S Southwest Modeling and Simulation Conference in Scottsdale, Arizona, Mar 12, 2014.